

REMARKS

Claims 1 had been amended. Claim 9 has been added.

Claims 1–8 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Jochheim (U.S. Patent No. 6,137,050) in view of Maldonado (U.S. Patent No. 5,852,421). For at least the following reasons, the Examiner’s rejection is respectfully traversed.

None of the references disclose or suggest “an antenna disposed on the rear surface of said printed board, wherein at least a part of the printed board, which the antenna is disposed, is accommodated in the resin housing” as recited in claim 1. Similar language is found in claim 5. The Office Action acknowledges that Jochheim fails to disclose an antenna disposed on the rear surface of the printed board, but cites Maldonado as discloses these elements in col. 7, lines 25–28.

Maldonado in col. 7, lines 25–28 merely discloses that the antenna coupler 100 may be encased in a plastic housing assembly 300, but the antenna coupler 100 does not include an antenna. In Maldonado, the antenna coupler 100 only includes a ground plan 102, vertical ground plan portions 104, 106, coupling elements 204a, 204b and 204c, ground pins 206a, 206b, and optional ground pin 206c (col. 3, lines 28–32). When a portable radiotelephone 200 is connected with the Maldonado antenna coupler 100, coupling elements 204a, 204b, 204c receive the radiotelephone antenna 204 located above the printed circuit board 410 (col. 3, lines 35–39). However, the Maldonado radiotelephone antenna 204 is not disposed on a printed circuit board.

Although Maldonado discloses that the antenna coupler may be encased in a plastic housing assembly, Maldonado fails to teach an antenna disposed on the rear surface of a printed board. Maldonado also fails to teach at least a part of a printed board, on which an antenna is disposed, is accommodated in a resin housing. Therefore, even if combined, the references do not disclose or suggest all the elements of the claimed invention.

Furthermore, there is no suggestion or motivation for one skilled in the art at the time the invention was made to combine Maldonado with Jochheim to arrive at the claimed invention.

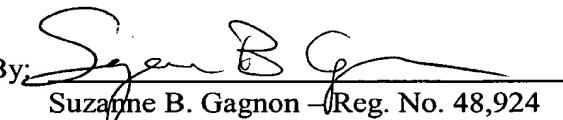
Maldonado merely discloses that the antenna coupler 100 may be encased in a plastic housing assembly 300 (col. 7, lines 25–28). The Jochheim housing consists of an upper housing shell 5 and a lower housing shell 6, and clearly shows that the printed board 7 is entirely accommodated in only one housing (i.e., housing 6) based on the edges of housing 5 and housing 6 (Fig. 1). Jochheim also indicates that the lower shell 6 is employed as shielding in order to achieve EMC shielding but does not disclose or suggest the material of the lower shell 6.

In the case the Jochheim lower shell 6 works as the EMC shielding, the Jochheim antenna 4 should be arranged so as to be away from the lower shell 6. Therefore, modifying Jocheim with the antenna elements of Moldanado would simply place an antenna cable within the lower shell 6. Thus, there is no motivation or suggestion to combine Moldanado with Jochheim. Reconsideration and withdrawal of the rejection based upon the combination of references is respectfully requested.

In light of the foregoing, it is respectfully submitted that the present application is in a condition for allowance and notice to that effect is hereby requested. If it is determined that the application is not in a condition for allowance, the Examiner is invited to initiate a telephone interview with the undersigned attorney to expedite prosecution of the present application.

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 16-0820, our Order No. 32439.

Respectfully submitted,
PEARNE & GORDON LLP

By: 
Suzanne B. Gagnon – Reg. No. 48,924

1801 East 9th Street
Suite 1200
Cleveland, Ohio 44114-3108
(216) 579-1700

Date: S-16-2006